SEQUENCE LISTING

	(1) GENE	RAL INFORMATION:
5	(i) A	PPLICANT: Lee, James Wood, WIlliam I.
	(ii) T	ITLE OF INVENTION: PF4A Receptors
10	(iii) N	UMBER OF SEQUENCES: 6
10	(ORRESPONDENCE ADDRESS: A) ADDRESSEE: Genentech, Inc. B) STREET: 1 DNA Way C) CITY: South San Francisco
15	(D) STATE: California E) COUNTRY: USA F) ZIP: 94080
20	(OMPUTER READABLE FORM: A) MEDIUM TYPE: 3.5 inch, 1.44 Mb floppy disk B) COMPUTER: IBM PC compatible C) OPERATING SYSTEM: PC-DOS/MS-DOS D) SOFTWARE: WinPatin (Genentech)
25 HU405	(URRENT APPLICATION DATA: A) APPLICATION NUMBER: B) FILING DATE: 24-June-1998 C) CLASSIFICATION:
	(IOR APPLICATION DATA: A) APPLICATION NUMBER: 08/701265 B) FILING DATE: 22-AUG-1996
35 🖸 61	(RIOR APPLICATION DATA: A) APPLICATION NUMBER: 08/664228 B) FILING DATE: 06-JUN-1996
40 G	(RIOR APPLICATION DATA: A) APPLICATION NUMBER: 08/076093 B) FILING DATE: 11-JUN-1993
45	(RIOR APPLICATION DATA: A) APPLICATION NUMBER: 07/810782 B) FILING DATE: 19-DEC-1991
50	(TTORNEY/AGENT INFORMATION: A) NAME: Love, Richard B. B) REGISTRATION NUMBER: 34,659 C) REFERENCE/DOCKET NUMBER: P0706P2C2
	(ELECOMMUNICATION INFORMATION: A) TELEPHONE: 415/225-5530 B) TELEFAX: 415/952-9881 C) TELEX: 910/371-7168
55	(2) INFO	RMATION FOR SEQ ID NO:1:

(i) SEQUENCE CHARACTERISTICS:

78

- (A) LENGTH: 1933 base pairs
- (B) TYPE: Nucleic Acid
- (C) STRANDEDNESS: Single
- (D) TOPOLOGY: Linear

5

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:1:

CCTGGCCGGT GCTTCAGTTA GATCAAACCA TTGCTGAAAC TGAAGAGGAC 50 10 ATGTCAAATA TTACAGATCC ACAGATGTGG GATTTTGATG ATCTAAATTT 100 CACTGCATG CCACCTGCAG ATGAAGATTA CAGCCCCTGT ATGCTAGAAA 150 CTGAGACACT CAACAAGTAT GTTGTGATCA TCGCCTATGC CCTAGTGTTC 200 15 CTGCTGAGCC TGCTGGGAAA CTCCCTGGTG ATGCTGGTCA TCTTATACAG 250 CAGGGTCGGC CGCTCCGTCA CTGATGTCTA CCTGCTGAAC CTGGCCTTGG 300 CCGACCTACT CTTTGCCCTG ACCTTGCCCA TCTGGGCCGC CTCCAAGGTG 350 20 AATGGCTGGA TTTTTGGCAC ATTCCTGTGC AAGGTGGTCT CACTCCTGAA 400 GGAAGTCAAC TTCTACAGTG GCATCCTGCT GTTGGCCTGC ATCAGTGTGG 450 ACCGTTACCT GGCCATTGTC CATGCCACAC GCACACTGAC CCAGAAGCGT 500 CACTTGGTCA AGTTTGTTTG TCTTGGCTGC TGGGGACTGT CTATGAATCT 550 30 [GTCCCTGCCC TTCTTCCTTT TCCGCCAGGC TTACCATCCA AACAATTCCA 600 M GTCCAGTTTG CTATGAGGTC CTGGGAAATG ACACAGCAAA ATGGCGGATG 650 GTGTTGCGGA TCCTGCCTCA CACCTTTGGC TTCATCGTGC CGCTGTTTGT 700 35 □ CATGCTGTTC TGCTATGGAT TCACCCTGCG TACACTGTTT AAGGCCCACA 750 m ħ TGGGGCAGAA GCACCGAGCC ATGAGGGTCA TCTTTGCTGT CGTCCTCATC 800 TTCCTGCTTT GCTGGCTGCC CTACAACCTG GTCCTGCTGG CAGACACCCT 850 40 🛅 Ħ CATGAGGACC CAGGTGATCC AGGAGACCTG TGAGCGCCGC AACAACATCG 900 GCCGGGCCCT GGATGCCACT GAGATTCTGG GATTTCTCCA TAGCTGCCTC 950 45 AACCCCATCA TCTACGCCTT CATCGGCCAA AATTTTCGCC ATGGATTCCT 1000 CAAGATCCTG GCTATGCATG GCCTGGTCAG CAAGGAGTTC TTGGCACGTC 1050 50 ATCGTGTTAC CTCCTACACT TCTTCGTCTG TCAATGTCTC TTCCAACCTC 1100 TGAAAACCAT CGATGAAGGA ATATCTCTTC TCAGAAGGAA AGAATAACCA 1150 ACACCCTGAG GTTGTGTGT GAAGGTGATC TGGCTCTGGA CAGGCACTAT 1200 55 CTGGGTTTTG GGGGGACGCT ATAGGATGTG GGGAAGTTAG GAACTGGTGT 1250 CTTCAGGGGC CACACCAACC TTCTGAGGAG CTGTTGAGGT ACCTCCAAGG 1300

	ACCGGCCTTT GCACCTCCAT GGAAACGAAG CACCATCATT CCCGTTGAAC 135													
	GTCACATCTT TAACCCACTA ACTGGCTAAT TAGCATGGCC ACATCTGAGC 140													
_	CCCGAATCTG ACATTAGATG AGAGAACAGG GCTGAAGCTG TGTCCTCATG 145													
5	AGGGCTGGAT GCTCTCGTTG ACCCTCACAG GAGCATCTCC TCAACTCTGA 150													
	GTGTTAAGCG TTGAGCCACC AAGCTGGTGG CTCTGTGTGC TCTGATCCGA 155													
10	GCTCAGGGGG GTGGTTTTCC CATCTCAGGT GTGTTGCAGT GTCTGCTGGA 160													
	GACATTGAGG CAGGCACTGC CAAAACATCA ACCTGCCAGC TGGCCTTGTG 165													
	AGGAGCTGGA AACACATGTT CCCCTTGGGG GTGGTGGATG AACAAAGAGA 170													
15	AAGAGGGTTT GGAAGCCAGA TCTATGCCAC AAGAACCCCC TTTACCCCCA 175													
	TGACCAACAT CGCAGACACA TGTGCTGGCC ACCTGCTGAG CCCCAAGTGG 180													
20	AACGAGACAA GCAGCCCTTA GCCCTTCCCC TCTGCAGCTT CCAGGCTGGC 185													
	GTGCAGCATC AGCATCCCTA GAAAGCCATG TGCAGCCACC AGTCCATTGG 190													
a	GCAGGCAGAT GTTCCTAATA AAGCTTCTGT TCC 1933													
25 🚡	(2) INFORMATION FOR SEQ ID NO:2:													
	(i) SEQUENCE CHARACTERISTICS:													
₽ 30 □	(A) LENGTH: 350 amino acids (B) TYPE: Amino Acid													
m	(D) TOPOLOGY: Linear													
. W	(xi) SEQUENCE DESCRIPTION: SEQ ID NO:2:													
35 🖸 ប្រា	Met Ser Asn Ile Thr Asp Pro Gln Met Trp Asp Phe Asp Asp Le													
N ∓ 40⊈	Asn Phe Thr Gly Met Pro Pro Ala Asp Glu Asp Tyr Ser Pro Cy 20 25 3													
40 型	Met Leu Glu Thr Glu Thr Leu Asn Lys Tyr Val Val Ile Ile Al													
45	Tyr Ala Leu Val Phe Leu Leu Ser Leu Leu Gly Asn Ser Leu Va 50 55 6													

Met Leu Val Ile Leu Tyr Ser Arg Val Gly Arg Ser Val Thr Asp

Val Tyr Leu Leu Asn Leu Ala Leu Ala Asp Leu Leu Phe Ala Leu

Thr Leu Pro Ile Trp Ala Ala Ser Lys Val Asn Gly Trp Ile Phe

Gly Thr Phe Leu Cys Lys Val Val Ser Leu Leu Lys Glu Val Asn

	Phe	Tyr	Ser	Gly	Ile 125	Leu	Leu	Leu	Ala	Cys 130	Ile	Ser	Val	Asp	Arg 135
5	Tyr	Leu	Ala	Ile	Val 140	His	Ala	Thr	Arg	Thr 145	Leu	Thr	Gln	Lys	Arg 150
J	His	Leu	Val	Lys	Phe 155	Val	Cys	Leu	Gly	Cys 160	Trp	Gly	Leu	Ser	Met 165
10	Asn	Leu	Ser	Leu	Pro 170	Phe	Phe	Leu	Phe	Arg 175	Gln	Ala	Tyr	His	Pro 180
	Asn	Asn	Ser	Ser	Pro 185	Val	Cys	Tyr	Glu	Val 190	Leu	Gly	Asn	Asp	Thr 195
15	Ala	Lys	Trp	Arg	Met 200	Val	Leu	Arg	Ile	Leu 205	Pro	His	Thr	Phe	Gly 210
20	Phe	Ile	Val	Pro	Leu 215	Phe	Val	Met	Leu	Phe 220	Cys	Tyr	Gly	Phe	Thr 225
20	Leu	Arg	Thr	Leu	Phe 230	Lys	Ala	His	Met	Gly 235	Gln	Lys	His	Arg	Ala 240
25 📮	Met	Arg	Val	Ile	Phe 245	Ala	Val	Val	Leu	Ile 250	Phe	Leu	Leu	Cys	Trp 255
30	Leu	Pro	Tyr	Asn	Leu 260	Val	Leu	Leu	Ala	Asp 265	Thr	Leu	Met	Arg	Thr 270
30 C	Gln	Val	Ile	Gln	Glu 275	Thr	Cys	Glu	Arg	Arg 280	Asn	Asn	Ile	Gly	Arg 285
□ * 35 □	Ala	Leu	Asp	Ala	Thr 290	Glu	Ile	Leu	Gly	Phe 295	Leu	His	Ser	Cys	Leu 300
G N	Asn	Pro	Ile	Ile	Tyr 305	Ala	Phe	Ile	Gly	Gln 310	Asn	Phe	Arg	His	Gly 315
子 40 位 位	Phe	Leu	Lys	Ile	Leu 320	Ala	Met	His	Gly	Leu 325	Val	Ser	Lys	Glu	Phe 330
Fi	Leu .	Ala	Arg	His	Arg 335	Val	Thr	Ser	Tyr	Thr 340	Ser	Ser	Ser	Val	Asn 345
45	Val	Ser	Ser	Asn	Leu 350										
	(2) I	NFOR	ITAM	ON F	OR S	SEQ I	D NC	3:							
50	(i	(A (B (C	L) LE S) TY C) SI	PE:	: 17 Nucl EDNE	37 b eic SS:	ase Acio Sino	pair l	s						
55		(D)) TC	POLC	GY:	Line	ar								

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:3:

	GAATTCCAGT	GTGCTGGCGG	CGCGGCGCAA	AGTGACGCCG	AGGGCCTGAG	50
	TGCTCCAGTA	GCCACCGCAT	CTGGAGAACC	AGCGGTTACC	ATGGAGGGGA	100
5	TCAGTATATA	CACTTCAGAT	AACTACACCG	AGGAAATGGG	CTCAGGGGAC	150
5	TATGACTCCA	TGAAGGAACC	CTGTTTCCGT	GAAGAAAATG	CTAATTTCAA	200
	TAAAATCTTC	CTGCCCACCA	TCTACTCCAT	CATCTTCTTA	ACTGGCATTG	250
10	TGGGCAATGG	ATTGGTCATC	CTGGTCATGG	GTTACCAGAA	GAAACTGAGA	300
	AGCATGACGG	ACAAGTACAG	GCTGCACCTG	TCAGTGGCCG	ACCTCCTCTT	350
1.5	TGTCATCACG	CTTCCCTTCT	GGGCAGTTGA	TGCCGTGGCA	AACTGGTACT	400
15	TTGGGAACTT	CCTATGCAAG	GCAGTCCATG	TCATCTACAC	AGTCAACCTC	450
	TACAGCAGTG	TCCTCATCCT	GGCCTTCATC	AGTCTGGACC	GCTACCTGGC	500
20	CATCGTCCAC	GCCACCAACA	GTCAGAGGCC	AAGGAAGCTG	TTGGCTGAAA	550
	AGGTGGTCTA	TGTTGGCGTC	TGGATCCCTG	CCCTCCTGCT	GACTATTCCC	600
25 📮	GACTTCATCT	TTGCCAACGT	CAGTGAGGCA	GATGACAGAT	ATATCTGTGA	650
25 <u>—</u> <u>—</u>	CCGCTTCTAC	CCCAATGACT	TGTGGGTGGT	TGTGTTCCAG	TTTCAGCACA	700
	TCATGGTTGG	CCTTATCCTG	CCTGGTATTG	TCATCCTGTC	CTGCTATTGC	750
30 📮	ATTATCATCT	CCAAGCTGTC	ACACTCCAAG	GGCCACCAGA	AGCGCAAGGC	800
<u> </u>	CCTCAAGACC	ACAGTCATCC	TCATCCTGGC	TTTCTTCGCC	TGTTGGCTGC	850
u ar ^k	CTTACTACAT	TGGGATCAGC	ATCGACTCCT	TCATCCTCCT	GGAAATCATC	900
35 <u> </u>	AAGCAAGGGT	GTGAGTTTGA	GAACACTGTG	CACAAGTGGA	TTTCCATCAC	950
ħij	CGAGGCCCTA	GCTTTCTTCC	ACTGTTGTCT	GAACCCCATC	CTCTATGCTT	1000
40 <u></u>	TCCTTGGAGC	CAAATTTAAA	ACCTCTGCCC	AGCACGCACT	CACCTCTGTG	1050
Œ	AGCAGAGGGT	CCAGCCTCAA	GATCCTCTCC	ÄAAGGAAAGC	GAGGTGGACA	1100
4.5	TTCATCTGTT	TCCACTGAGT	CTGAGTCTTC	AAGTTTTCAC	TCCAGCTAAC	1150
45	ACAGATGTAA	AAGACTTTTT	TTTATACGAT	AAATAACTTT	TTTTTAAGTT	1200
	ACACATTTTT	CAGATATAAA	AGACTGACCA	ATATTGTACA	GTTTTTATTG	1250
50	CTTGTTGGAT	TTTTGTCTTG	TGTTTCTTTA	GTTTTTGTGA	AGTTTAATTG	1300
	ACTTATTTAT	ATAAATTTTT	TTTGTTTCAT	ATTGATGTGT	GTCTAGGCAG	1350
E	GACCTGTGGC	CAAGTTCTTA	GTTGCTGTAT	GTCTCGTGGT	AGGACTGTAG	1400
55	AAAAGGGAAC	TGAACATTCC	AGAGCGTGTA	GTGAATCACG	TAAAGCTAGA	1450
	AATGATCCCC	AGCTGTTTAT	GCATAGATAA	TCTCTCCATT	CCCGTGGAAC	1500

	GTT'	TTTC	CTG '	TTCT'	TAAG	AC G	TGAT'	TTTG	C TG	TAGA	AGAT	GGC	ACTT	ATA	1550
	ACC	AAAG	ccc i	AAAG'	TGGT	AT A	GAAA'	TGCT	G GT	TTTT	CAGT	TTT	CAGG	AGT	1600
r	GGG'	TTGA'	TTT (CAGC	ACCT	AC A	GTGT	ACAG:	r ct	TGTA'	TTAA	GTT	GTTA	ATA	1650
5	AAA	GTAC	ATG 1	TTAA	ACTT	AA AA	AAAA	AAAA	AA A	AAAA	AAAA	AAA	AAAA	AAA	1700
	AAA	AAAA	AAA A	AAAG	CGGC	CG C	CAGC	ACAC:	r GG	AATT	C 17	37			
10	(2)	INFO	RMAT:	ION I	FOR :	SEQ :	ID N	0:4:							
15	(:	(1	A) LI B) T		H: 3! Ami	52 ar	cid	ICS: acio	ds						
	(x:	i) S	EQUE	NCE I	DESCI	RIPT:	ION:	SEQ	ID	NO:4	:				
20	Met 1	Glu	Gly	Ile	Ser 5	Ile	Tyr	Thr	Ser	Asp 10	Asn	Tyr	Thr	Glu	Glu 15
	Met	Gly	Ser	Gly	Asp 20	Tyr	Asp	Ser	Met	Lys 25	Glu	Pro	Cys	Phe	Arg 30
25 <u>□</u> □ □	Glu	Glu	Asn	Ala	Asn 35	Phe	Asn	Lys	Ile	Phe 40	Leu	Pro	Thr	Ile	Tyr 45
30 -	Ser	Ile	Ile	Phe	Leu 50	Thr	Gly	Ile	Val	Gly 55	Asn	Gly	Leu	Val	Ile 60
	Leu	Val	Met	Gly	Tyr 65	Gln	Lys	Lys	Leu	Arg 70	Ser	Met	Thr	Asp	Lys 75
35 💆	Tyr	Arg	Leu	His	Leu 80	Ser	Val	Ala	Asp	Leu 85	Leu	Phe	Val	Ile	Thr 90
in .	Leu	Pro	Phe	Trp	Ala 95	Val	Asp	Ala	Val	Ala 100	Asn	Trp	Tyr	Phe	Gly 105
40 点 切	Asn	Phe	Leu	Суз	Lys 110	Ala	Val	His	Val	Ile 115	Tyr	Thr	Val	Asn	Leu 120
45	Tyr	Ser	Ser	Val	Leu 125	Ile	Leu	Ala	Phe	Ile 130	Ser	Leu	Asp	Arg	Tyr 135
	Leu	Ala	Ile	Val	His 140	Ala	Thr	Asn	Ser	Gln 145	Arg	Pro	Arg	Lys	Leu 150
50	Leu	Ala	Glu	Lys	Val 155	Val	Tyr	Val	Gly	Val 160	Trp	Ile	Pro	Ala	Leu 165
	Leu	Leu	Thr	Ile	Pro 170	Asp	Phe	Ile	Phe	Ala 175	Asn	Val	Ser	Glu	Ala 180
55	Asp	Asp	Arg	Tyr	Ile 185	Cys	Asp	Arg	Phe	Tyr 190	Pro	Asn	Asp	Leu	Trp 195
	Val	Val	Val	Phe	Gln	Phe	Gln	His	Ile	Met	Val	Gly	Leu	Ile	Leu

		200	20	205										
	Pro Gly Ile Val	Ile Leu Se 215	r Cys Tyr Cys 220		Ser Lys 225									
5	Leu Ser His Ser	Lys Gly Hi 230	s Gln Lys Arg 23		Lys Thr 240									
1.0	Thr Val Ile Leu	Ile Leu Al 245	a Phe Phe Ala 250		Pro Tyr 255									
10	Tyr Ile Gly Ile	Ser Ile As 260	p Ser Phe Ile 26		Ile Ile 270									
15	Lys Gln Gly Cys	Glu Phe Gl 275	u Asn Thr Val 280		Ile Ser 285									
	Ile Thr Glu Ala	Leu Ala Ph 290	e Phe His Cys 295	_	Pro Ile 300									
20	Leu Tyr Ala Phe	Leu Gly Al 305	a Lys Phe Lys 310		Gln His 315									
25 📮	Ala Leu Thr Ser	Val Ser Ar 320	g Gly Ser Ser 325		Leu Ser 330									
25 <u> </u>	Lys Gly Lys Arg	Gly Gly Hi 335	s Ser Ser Val 340		Ser Glu 345									
25 — — — — — — — — — — — — — — — — — — —	Ser Ser Ser Phe	His Ser Se 350 35												
gn .	(2) INFORMATION FOR SEQ ID NO:5:													
35 C C C C C C C C C C C C C C C C C C C	(A) LENGTI (B) TYPE: (C) STRANI	CHARACTERIS H: 1679 bas Nucleic Ac DEDNESS: Si DGY: Linear	e pairs id											
40 <u>5</u>	(xi) SEQUENCE I	DESCRIPTION	: SEQ ID NO:5	5:										
	GAATTCCAGT GTGCT	rggcgg ccgc	CCAGTG TGCTG	GCGGC GGCAGTT	GAG 50									
45	GGAAAGGACA GAGGT	TATGA GTGC	CTGCAA GAGTGO	GCAGC CTGGAGT.	AGA 100									
	GAAAACACTA AAGG	GGAGT CAAA	AGACCT GAGTTO	CAAGT CCCAGCT	CTG 150									
50	CCACTGGTTA GCTG	GGGAT CTCG	GAAAAG ACCCAC	STGAA AAAAAAA	AAA 200									
50	AAAGTGATGA GTTG	GAGGC AGGT	CGCGGC CCTACT	GCCT CAGGAGA	CGA 250									
	TGCGCAGCTC ATTTC	CTTAA ATTT	GCAGCT GACGGC	TGCC ACCTCTC	TAG 300									
55	AGGCACCTGG CGGG	מבררד רדרם:	מרמימם המרמהי	יGACC במדכידבבי	TCA 350									

CTCACAGCCG GCACAGCCAT GAACTACCCG CTAACGCTGG AAATGGACCT 400

	CGAGAACCTG	GAGGACCTGT	TCTGGGAACT	GGACAGATTG	GACAACTATA	450
	ACGACACCTC	CCTGGTGGAA	AATCATCTCT	GCCCTGCCAC	AGAGGGGCCC	500
5	CTCATGGCCT	CCTTCAAGGC	CGTGTTCGTG	CCCGTGGCCT	ACAGCCTCAT	550
3	CTTCCTCCTG	GGCGTGATCG	GCAACGTCCT	GGTGCTGGTG	ATCCTGGAGC	600
	GGCACCGGCA	GACACGCAGT	TCCACGGAGA	CCTTCCTGTT	CCACCTGGCC	650
10	GTGGCCGACC	TCCTGCTGGT	CTTCATCTTG	CCCTTTGCCG	TGGCCGAGGG	700
	CTCTGTGGGC	TGGGTCCTGG	GGACCTTCCT	CTGCAAAACT	GTGATTGCCC	750
15	TGCACAAAGT	CAACTTCTAC	TGCAGCAGCC	TGCTCCTGGC	CTGCATCGCC	800
15	GTGGACCGCT	ACCTGGCCAT	TGTCCACGCC	GTCCATGCCT	ACCGCCACCG	850
	CCGCCTCCTC	TCCATCCACA	TCACCTGTGG	GACCATCTGG	CTGGTGGGCT	900
20	TCCTCCTTGC	CTTGCCAGAG	ATTCTCTTCG	CCAAAGTCAG	CCAAGGCCAT	950
	CACAACAACT	CCCTGCCACG	TTGCACCTTC	TCCCAAGAGA	ACCAAGCAGA	1000
25 =	AACGCATGCC	TGGTTCACCT	CCCGATTCCT	CTACCATGTG	GCGGGATTCC	1050
25 <u>©</u> ⊭	TGCTGCCCAT	GCTGGTGATG	GGCTGGTGCT	ACGTGGGGGT	AGTGCACAGG	1100
<u> </u>	TTGCGCCAGG	CCCAGCGGCG	CCCTCAGCGG	CAGAAGGCAG	TCAGGGTGGC	1150
30 □	CATCCTGGTG	ACAAGCATCT	TCTTCCTCTG	CTGGTCACCC	TACCACATCG	1200
	TCATCTTCCT	GGACACCCTG	GCGAGGCTGA	AGGCCGTGGA	CAATACCTGC	1250
35 🗖	AAGCTGAATG	GCTCTCTCCC	CGTGGCCATC	ACCATGTGTG	AGTTCCTGGG	1300
m	CCTGGCCCAC	TGCTGCCTCA	ACCCCATGCT	CTACACTTTC	GCCGGCGTGA	1350
H.	AGTTCCGCAG	TGACCTGTCG	CGGCTCCTGA	CGAAGCTGGG	CTGTACCGGC	1400
40 🗓	CCTGCCTCCC	TGTGCCAGCT	CTTCCCTAGC	TGGCGCAGGA	GCAGTCTCTC	1450
Ü	TGAGTCAGAG	AATGCCACCT	CTCTCACCAC	GTTCTAGGTC	CCAGTGTCCC	1500
45	CTTTTATTGC	TGCTTTTCCT	TGGGGCAGGC	AGTGATGCTG	GATGCTCCTT	1550
4.7	CCAACAGGAG	CTGGGATCCT	AAGGGCTCAC	CGTGGCTAAG	AGTGTCCTAG	1600
	GAGTATCCTC	ATTTGGGGTA	GCTAGAGGAA	CCAACCCCCA	TTTCTAGAAC	1650
50	ATCCCGCGGC	CGCCAGCACA	CTGGAATTC 1	1679		

(2) INFORMATION FOR SEQ ID NO:6:

55

- (i) SEQUENCE CHARACTERISTICS:
 - (A) LENGTH: 372 amino acids
 (B) TYPE: Amino Acid
 (D) TOPOLOGY: Linear

(xi) SEQUENCE DESCRIPTION: SEQ ID NO:6:

	Met 1	Asn	Tyr	Pro	Leu 5	Thr	Leu	Glu	Met	Asp 10	Leu	Glu	Asn	Leu	Glu 15
5	Asp	Leu	Phe	Trp	Glu 20	Leu	Asp	Arg	Leu	Asp 25	Asn	Tyr	Asn	Asp	Thr 30
10	Ser	Leu	Val	Glu	Asn 35	His	Leu	Суѕ	Pro	Ala 40	Thr	Glu	Gly	Pro	Leu 45
	Met	Ala	Ser	Phe	Lys 50	Ala	Val	Phe	Väl	Pro 55	Val	Ala	Tyr	Ser	Leu 60
15	Ile	Phe	Leu	Leu	Gly 65	Val	Ile	Gly	Asn	Val 70	Leu	Val	Leu	Val	Ile 75
	Leu	Glu	Arg	His	Arg 80	Gln	Thr	Arg	Ser	Ser 85	Thr	Glu	Thr	Phe	Leu 90
20	Phe	His	Leu	Ala	Val 95	Ala	Asp	Leu	Leu	Leu 100	Val	Phe	Ile	Leu	Pro 105
25	Phe	Ala	Val	Ala	Glu 110	Gly	Ser	Val	Gly	Trp 115	Val	Leu	Gly	Thr	Phe 120
25 🗒 🗒	Leu	Cys	Lys	Thr	Val 125	Ile	Ala	Leu	His	Lys 130	Val	Asn	Phe	Tyr	Cys 135
30	Ser	Ser	Leu	Leu	Leu 140	Ala	Cys	Ile	Ala	Val 145	Asp	Arg	Tyr	Leu	Ala 150
	Ile	Val	His	Ala	Val 155	His	Ala	Tyr	Arg	His 160	Arg	Arg	Leu	Leu	Ser 165
35 🔲	Ile	His	Ile	Thr	Cys 170	Gly	Thr	Ile	Trp	Leu 175	Val	Gly	Phe	Leu	Leu 180
TU F 40 Ū	Ala	Leu	Pro	Glu	Ile 185	Leu	Phe	Ala	Lys	Val 190	Ser	Gln	Gly	His	His 195
Ö	Asn	Asn	Ser	Leu	Pro 200	Arg	Cys	Thr	Phe	Ser 205	Gln	Glu	Asn	Gln	Ala 210
45	Glu	Thr	His	Ala	Trp 215	Phe	Thr	Ser	Arg	Phe 220	Leu	Tyr	His	Val	Ala 225
	Gly	Phe	Leu	Leu	Pro 230	Met	Leu	Val	Met	Gly 235	Trp	Cys	Tyr	Val	Gly 240
50	Val	Val	His	Arg	Leu 245	Arg	Gln	Ala	Gln	Arg 250	Arg	Pro	Gln	Arg	Gln 255
55	Lys	Ala	Val	Arg	Val 260	Ala	Ile	Leu	Val	Thr 265	Ser	Ile	Phe	Phe	Leu 270
	Cys	Trp	Ser	Pro	Tyr 275	His	Ile	Val	Ile	Phe 280	Leu	Asp	Thr	Leu	Ala 285

	Arg	Leu	Lуs	Ala	290	Asp	Asn	Thr	Cys	Lys 295	Leu	Asn	GTÀ	Ser	300
5	Pro	Val	Ala	Ile	Thr 305	Met	Cys	Glu	Phe	Leu 310	Gly	Leu	Ala	His	Cys 315
	Суѕ	Leu	Asn	Pro	Met 320	Leu	Tyr	Thr	Phe	Ala 325	Gly	Val	Lys	Phe	Arg 330
10	Ser	Asp	Leu	Ser	Arg 335	Leu	Leu	Thr	Lys	Leu 340	Gly	Cys	Thr	Gly	Pro 345
	Ala	Ser	Leu	Cys	Gln 350	Leu	Phe	Pro	Ser	Trp 355	Arg	Arg	Ser	Ser	Leu 360
15	Ser	Glu	Ser	Glu	Asn 365	Ala	Thr	Ser	Leu	Thr 370	Thr	Phe 372			